

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Lai et al.	Attorney Docket No.: RDRT 1004-2
Application No.: Unassigned	Examiner: Unassigned
Filed: 14 October 2003	Group: Unassigned
Title: SYNTHETIC ANTIFERROMAGNETIC PINNED LAYER WITH FE/FESI/FE SYSTEM	Confirmation No.: Unassigned
	Customer No. 22470

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56.

Since this is a continuation, divisional or continuation-in-part application, it is understood that the Examiner will consider all information which was considered by the Office in a parent application. Such information therefore is not listed herein unless it is desired that the information be printed on a patent issuing from the subject application.

Enclosed with this statement is a Form PTO/SB/08A. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. 609.

Copies are not submitted of documents previously submitted by the applicant in parent Application No. 09/209,060, filed December 9, 1998, Attorney Docket No. RDRT 1004-1, from which benefit under 35 U.S.C. 120 is claimed, 37 C.F.R. 1.98(d)(1), with an information disclosure statement submitted in the parent application which complies with the Sept. 8, 2000 or subsequent revision of 37 C.F.R. 1.98(a-c).

This statement should be considered under 37 C.F.R. 1.97(b) because it is being filed within three months of the filing date of an application other than a continued prosecution application under 37 C.F.R. 1.53(d).

Fee Authorization. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (~~RDRT 1004-2~~).

Respectfully submitted,

Haynes Beffel & Wolfeld LLP

Date: 14 October 2003

By: 

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PTO/SB/08A (08-00)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
Application Number		Unassigned				
Filing Date		14 October 2003				
First Named Inventor		Lai				
Group Art Unit		Unassigned				
Examiner Name		Unassigned				
Attorney Docket Number		RDRT 1004-2				
Sheet	1	of	2			

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	5,465,185		Heim et al.	11-07-95	
	A2	5,668,685		Soeya et al.	09-16-97	
	A3	5,701,222		Gill et al.	12-23-97	
	A4	5,701,223		Fontana Jr., et al.	12-23-97	
	A5	5,739,990		Ravipati et al.	04-14-98	
	A6	5,768,067		Saito et al.	06-16-98	
	A7	5,804,250		Yang	09-08-98	
	A8	5,849,422		Hayashi	12-15-98	
	A9	5,976,713		Fuke et al.	11-02-99	
	A10	6,002,555		Tagawa	12-14-99	
	A11					
	A12					
	A13					
	A14					
	A15					
	A16					
	A17					
	A18					
	A19					
	A20					

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	B1							
	B2							
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	B7							
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	B10							

Examiner Signature		Date Considered	
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
		Application Number	Unassigned		
		Filing Date	14 October 2003		
		First Named Inventor	Lai		
		Group Art Unit	Unassigned		
		Examiner Name	Unassigned		
		Attorney Docket Number	RDRT 1004-2		
Sheet	2	of	2		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	P. Bruno et al., "Oscillatory Coupling Between Ferromagnetic Layers Separated by a Nonmagnetic Metal Spacer," Sept. 16, 1991, The American Physical Society, Physical Review Letters, Vol. 67, No. 12, pp. 1602-1605.	
	C2	J. J. deVries et al., "Exponential Dependence of the Interlayer Exchange Coupling on the Spacer Thickness in MBE-grown Fe/SiFe/Fe Sandwiches," April 14, 1997, The American Physical Society, Physical Review Letters, Vol. 78, No. 15, pp. 3023-3026.	
	C3	S. S. P. Parkin et al., "Oscillations in Exchange Coupling and Magnetoresistance in Metallic Superlattice Structures: Co/Ru, Co/Cr, and Fe/Cr" 1990, The American Physical Society, Physical Review Letters, Vol. 64, No. 19, pp. 2304-2307.	
	C4	Zhu-Pei Shi et al., "Antiferromagnetic Bias in the Interlayer Magnetic Coupling," May 20, 1994, Europhysics Letters, 26 (6), pp. 473-478.	
	C5	Zhu-Pei Shi et al., "Interlayer Magnetic Coupling in Metallic Multilayer Structures," June 1, 1994, The American Physical Society, Physical Review B, Vol. 49, No. 1, pp. 15 159-15 178.	

Examiner Signature		Date Considered	
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